



PATENT  
P57032

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

TAE-YOUNG KIL, *et al.*

Serial No.: 10/776,517

Examiner: *To be assigned*

Filed: 12 February 2004

Art Unit: 2661

For: COMPLEX WIRELESS SERVICE APPARATUS USING WIRED AND  
WIRELESS COMMUNICATION SYSTEMS AND METHOD THEREOF

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

**CITED IN THE EUROPEAN SEARCH REPORT:**

**U.S. PATENT REFERENCES:**

- U.S. Patent Publication No. US 2002/085516 to Bridgelall, entitled *AUTOMATIC AND SEAMLESS VERTICAL ROAMING BETWEEN WIRELESS LOCAL AREA NETWORK (WLAN) AND WIRELESS WIDE AREA NETWORK (WWAN) WHILE MAINTAINING AN ACTIVE VOICE OR STREAMING DATA CONNECTION: SYSTEMS, METHODS AND PROGRAM PRODUCTS*, published on 4 July 2002.

**FOREIGN PATENT REFERENCES:**

- International Patent Publication No. WO 02/062094 to Kallio, entitled GSM NETWORKS AND SOLUTIONS FOR PROVIDING SEAMLESS MOBILITY BETWEEN GSM NETWORKS AND DIFFERENT RADIO NETWORKS, published on 8 August 2002.

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**CITED IN THE JAPANESE SECOND OFFICE ACTION:**

**FOREIGN PATENT REFERENCES:**

- Japanese Patent Publication No. JP2002-101469 to Ogura, et al., entitled *MASTER SET FOR CORDLESS TELEPHONE SYSTEM*, published on 5 April 2002. (with Englished abstract)
- Japanese Patent Publication No. JP8-228384, to Okura, entitled TELEPHONE EQUIPMENT, published on 3 September 1996. (with English abstract)

**OTHER DOCUMENTS:**

- European partial Search Report corresponding to European Patent Application No. 04003007.4-1249, issued on 20 August 2007.
- Japanese second Office action corresponding to Japanese Patent Application No. JP2004-035794, issued on 17 July 2007.
- Technical Specification XP002410542, 3GPP TS 23.234V1.0.0(2002-09) 3<sup>RD</sup> GENERATION PARTNERSHIP PROJECT corresponding to European Patent Application No. 04003007.4-1249), released on September 2002.

**DISCUSSION**  
**IN THE EUROPEAN SEARCH REPORT**

According to the European Search Report issued on 20 August 2007, corresponding to Patent Application No. 04003007.4-1249.

**Bridgelall, US'516** discloses that a Mobile Station (MS) is able to vertically roam in either direction between two different network, i.e. WWAN and WLAN. The MS is equipped with a dual mode Radio for WWAN and WLAN transmissions. The WLAN Radio is linked to a WLAN Enterprise Gateway Controller (EGC) via a first air link and the WWAN Radio is linked to a WWAN Base Transceiver Station (BTS) via a second air link. The EGC is connected to a Mobile Switching Center (MSC) which is in turn connected to the BTS. An outgoing VoIP call from the WLAN Radio to a remote party on the WWAN will transition or seamlessly switch over to a WWAN connection when the MS detects packet error rates, frequent scale back or consistent signal degradation. Upon such conditions, the WLAN Radio requests the EGC to request an Explicit Call Transfer via the MSC to the MS integrated WWAN Radio portion which automatically accepts the call based on referenced information stored in the user's subscriber identification module (SIM). Once the WWAN Radio is confirmed connected to the remote party on the WWAN, the WLAN Radio drops the WLAN connection. An incoming call between the MS and a remote user via the WWAN will transition to the WLAN Radio when the MS enters WLAN coverage. The MS issues an ECT to the WLAN. After user verification by the WLAN Radio and the EGC signals acceptance of the call, the WWAN Radio connection is dropped and the call is now established between the WLAN Radio and the remote party on the WWAN.

**Kallio, WO'094** discusses that a network architecture for wireless applications including a local radio network such as a wireless local area network (WLAN) which comprises a Wireless Mobile Centre (WMC) arranged to serve as a WLAN access point; a cellular networks such as a GSM network which comprises a Mobile Station (MS) in a form of dual-mode cellular phone to access both WLAN and GSM radio technologies, a Base Station (BS) arranged to convert a radio

signal from the Mobile Station (MS) for communication, a Mobile Switching Centre (MSC) arranged to establish call connection; and a Handover Module implemented in either the Mobile Station (MS) or the Wireless Mobile Center (WMC) for providing seamless mobility between the GSM network and the wireless LAN, when the Mobile Station (MS) roams between the GSM network and the wireless LAN.

**SP002410542, 3GPP TS 23.234 V1.0.0(2002-09), 3<sup>rd</sup> Generation Partnership Project (3GPP)**, the technical specification states that this document specifies the 3GPP WLAN subsystem. The 3GPP WLAN subsystem is assumed to provide bearer services for connecting a 3GPP subscriber via WLAN to IP based services compatible with those offered via PS domain.

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**IN THE JAPANESE SECOND OFFICE ACTION**

According to the Japanese second Office action issued on 17 July 2007, corresponding to Japanese Patent Application No. JP2004-035794.

**Ogura, et al., JP'469** discussed that the master set is provided with a RAM 24 that stores a public telephone number of a slave set 2 called via a base station and a slave set number able to call the slave set 2 through direct radio communication and with a control circuit 22 that conducts a 1st step operation (S26) where the slave set 2 is called by a slave set number when the master set 1 calls the slave set 2 (Y in S23) and a 2nd step operation (S29) where the slave set 2 is called by the public telephone number when no reply comes from the slave set 2 even when the slave set 2 is called by the slave set number (N in S27).

**Okura, JP'384** discusses that a table 14 of correspondence between slave machine numbers and public line numbers of slave machines is provided; and when the public line number of a slave machine terminal is inputted to an operation part 10, a control part 12 retrieves whether the slave machine terminal corresponding to this public line number exists or not. When it exists, a mode switching part 18 is switched to the transceiver mode to call it in this mode requiring no charge. If it cannot be called in the transceiver mode, the mode switching part 18 is switched to another mode, for example, the public mode to call it again. If the line is disconnected by extension of the distance

between slave machine terminals in the middle of speech in the transceiver mode, the slave machine terminal is called again in the mode other than the transceiver mode.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

No fee is incurred by this Statement.

Respectfully submitted,



Robert E. Bushnell  
Reg. No.: 27,774  
Attorney for the Applicant

1522 "K" Street, N.W., Suite 300  
Washington, D.C. 20005  
Area Code: (202) 408-9040  
Folio: P57032 Date: 9/5/07  
I.D.: REB/ty



**INFORMATION DISCLOSURE STATEMENT**  
**PTO-1449 (PAGE 1 OF 1)**

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**APPLICANT** TAE-YOUNG KIL, et al.

**FILING DATE** 12 February 2004

**GROUP** 2661

**U.S. PATENT DOCUMENTS**

EXAMINE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	US 2002/0085516	7/4/02	Bridgelall			12/14/01

**FOREIGN PATENT DOCUMENTS**

**TRANSLATION**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	WO 02/062094	08/08/02	WIPO			Abstract	
	JP2002-101469	04/05/02	JAPAN			Abstract	
	JP8-228384	09/03/96	JAPAN			Abstract	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

- European partial Search Report corresponding to European Patent Application No. 04003007.4-1249, issued on 20 August 2007.
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.